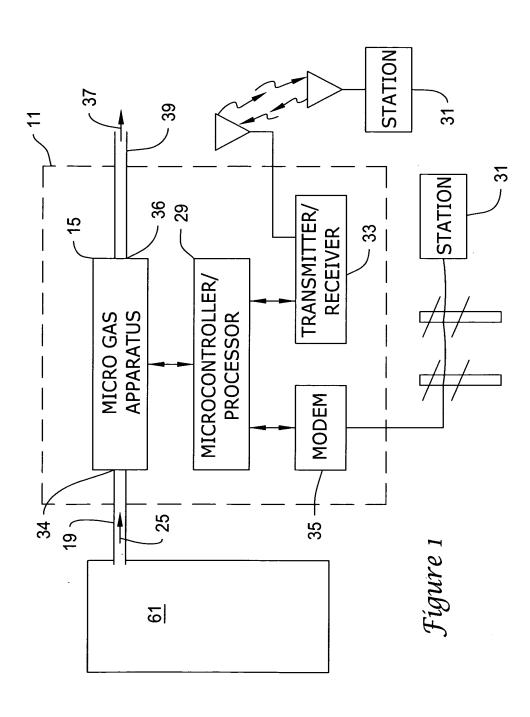
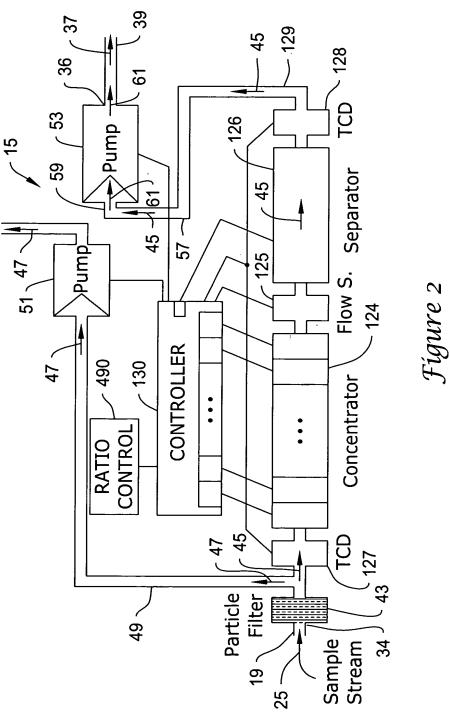
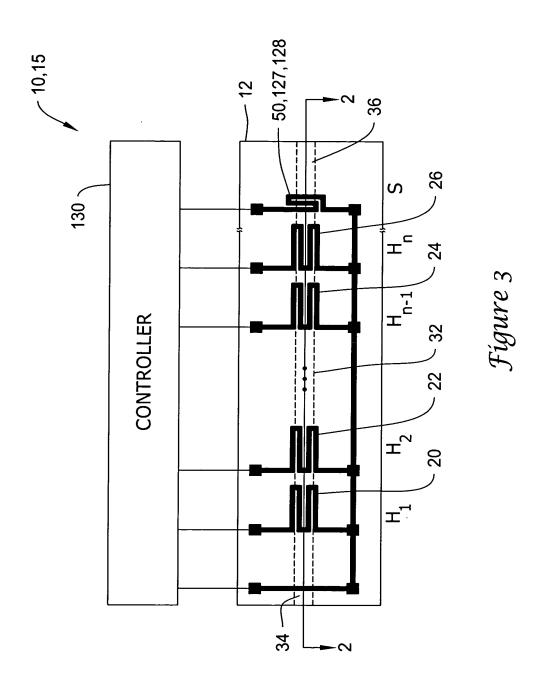


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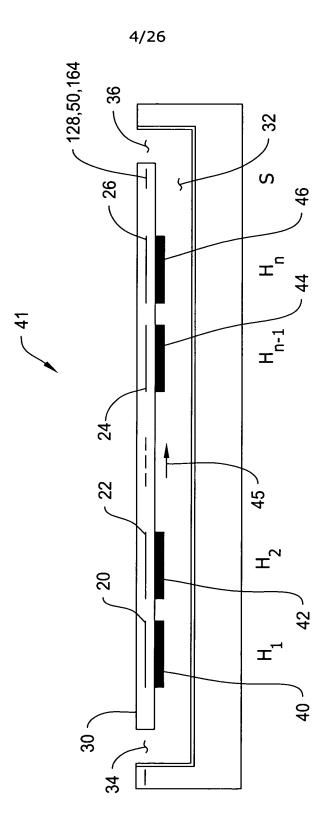


Figure 4

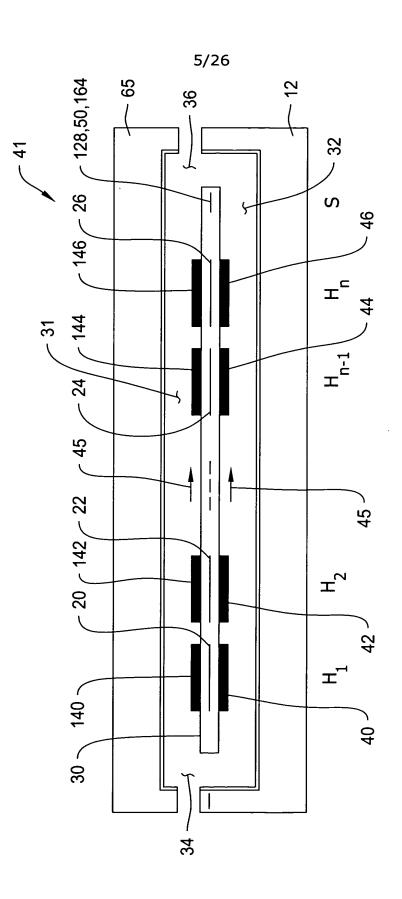


Figure 5

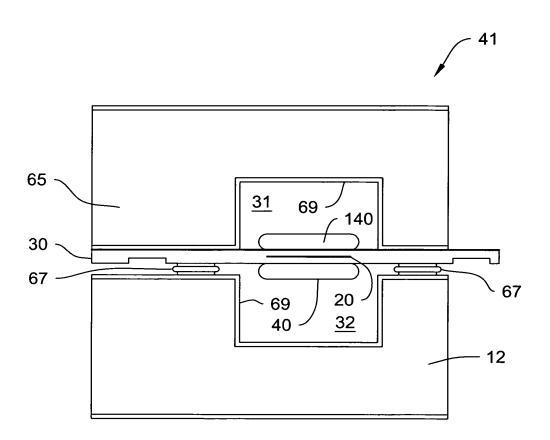
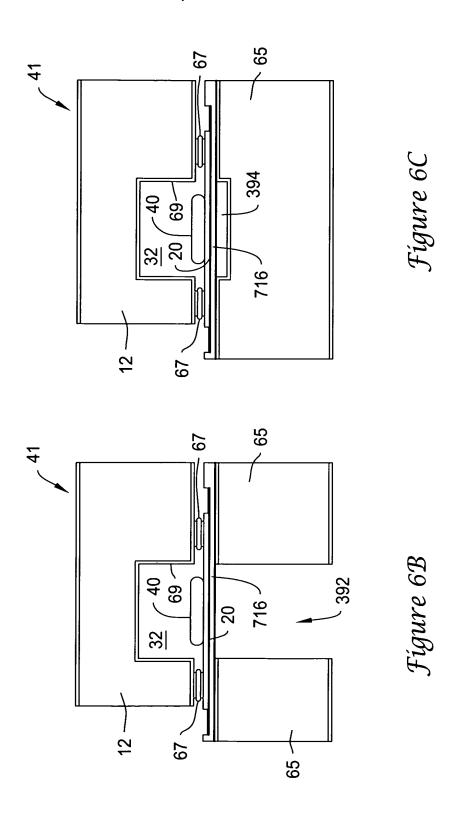


Figure 6A

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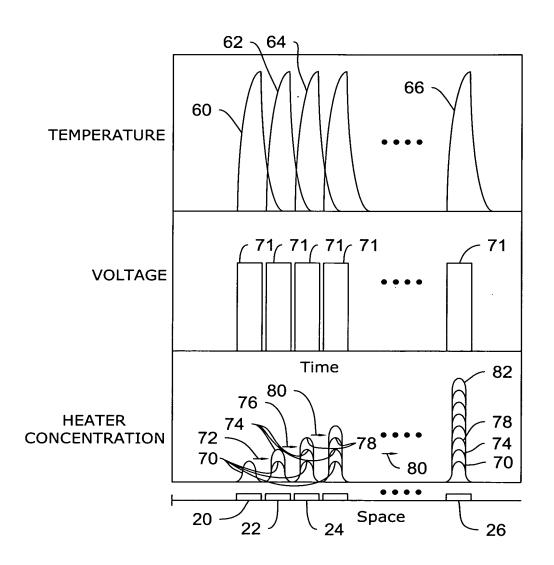
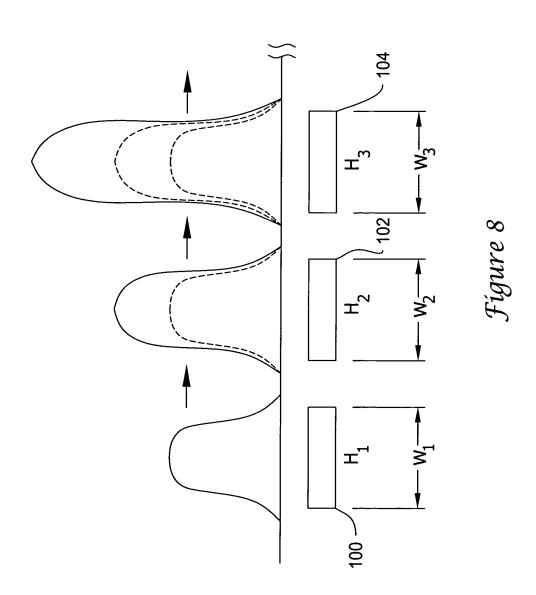


Figure 7



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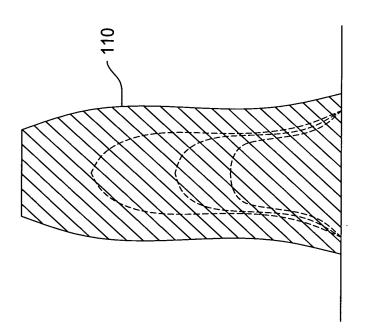


Figure 9

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	Comparison of	Detection	of Detection Limits in pg/s (MDL) and Selectivities $\times 10^3~(\mathrm{SEL})$	pg/s (MDL	and Sele	ctivities x	16³ (SEL)				
		:hi	this work	ref 9 (without background carrection)	vithout round rijon)	ref 9 (with background correction)	(with round tion)	191 0° (	echelle)	ref 8 <sup>5</sup> (with background correction)	(with cound (tion)
lement	wavelength, nm	MDI.	SEL	MDI.	· 图·	MI)ľ,	SEI,	MDL	MDL SEL	MDL	SEL
z	2. A. C.	ब्रह् (	ç								
Œ,	5.080		55.								
Į	57.87	3	2005								
ت	1331	 C								ŭ	
<u>-</u>	177.0	ing.	20							į	
ن	237.9	2.6		1 - 0							
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<u> 51</u>	250.7	Ξ	6003	90	: [~			) (C)	i S		
뚪	470.4			-77	0.27	17	0,	ŝ	<del>-</del>	35 55	0
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I	656.3	3.0		(C)	} ;					5.7 67	
ᅶ	685.6	9	<del>2</del>	88	0.57	<u> </u>	,	<u>:</u>	හු ආ		0.82
0	61.75	ភូ	<u> </u>						1	ì	2

<sup>a</sup>Reference T uses peak width at base instead of peak width at half height to determine MDE, and the numbers have been adjusted accordingly for comparison. <sup>b</sup>Reference S uses to instead of peak to peak (6a) to mensure mise for MDE, and their numbers have been adjusted accordingly for comparison. <sup>c</sup>Versus hydrogen.

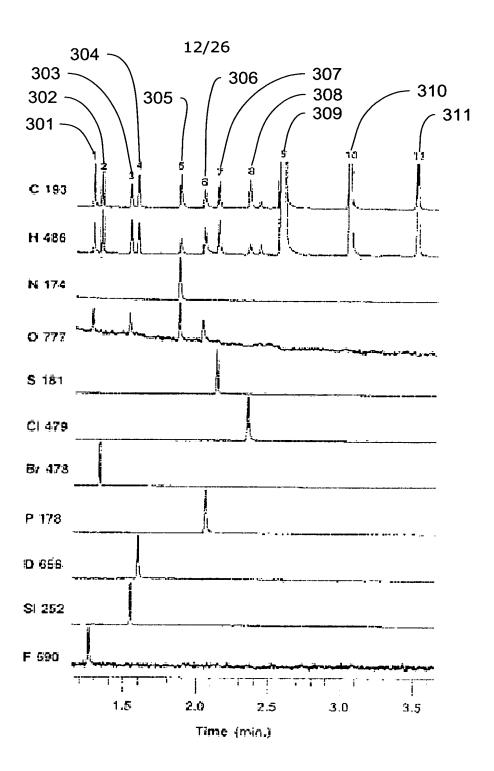


Figure 11

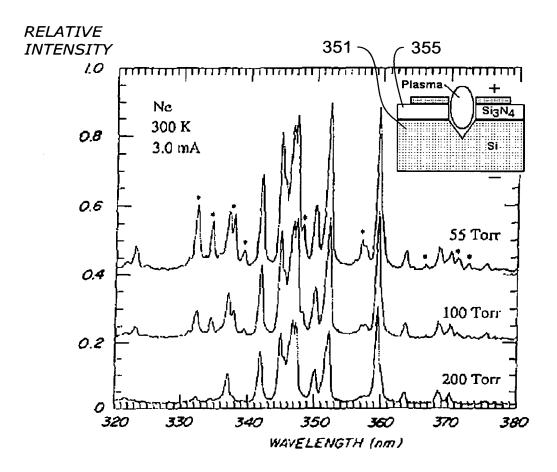
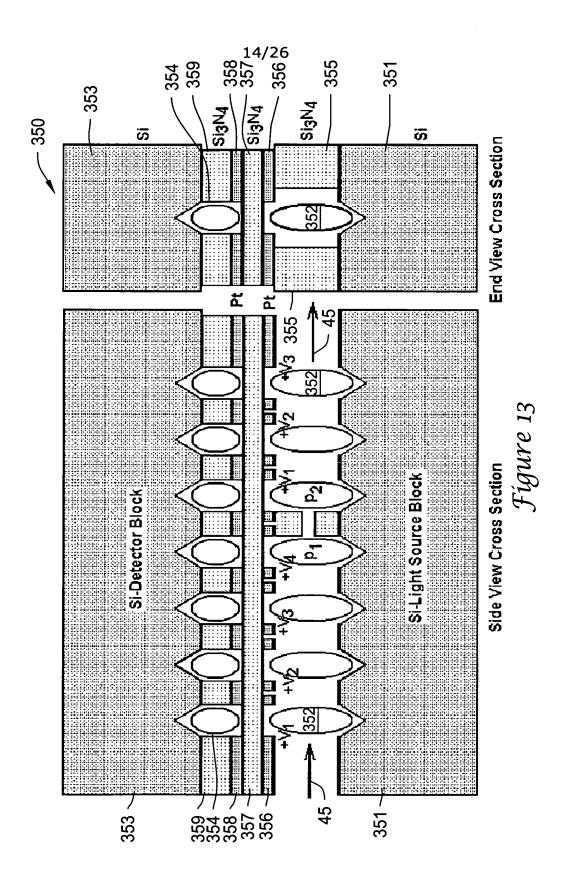


Figure 12





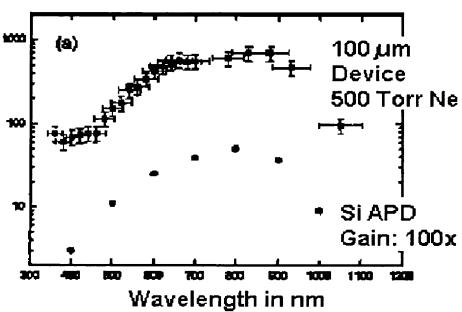
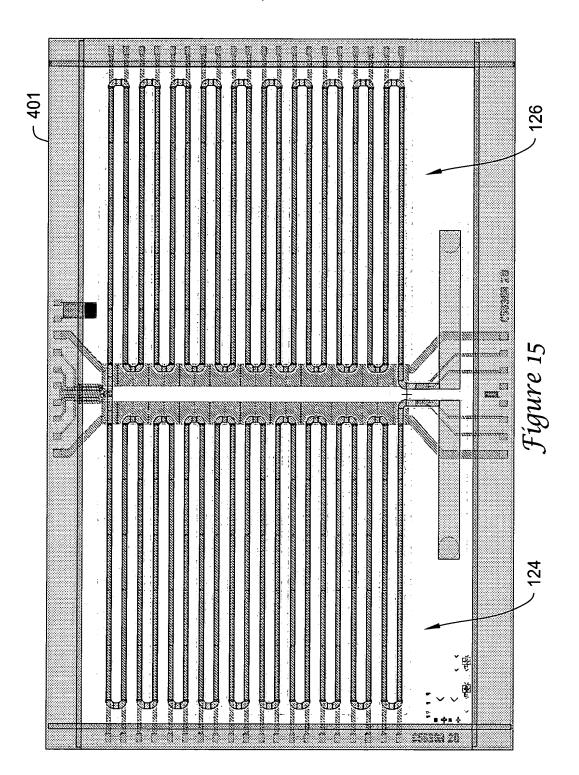
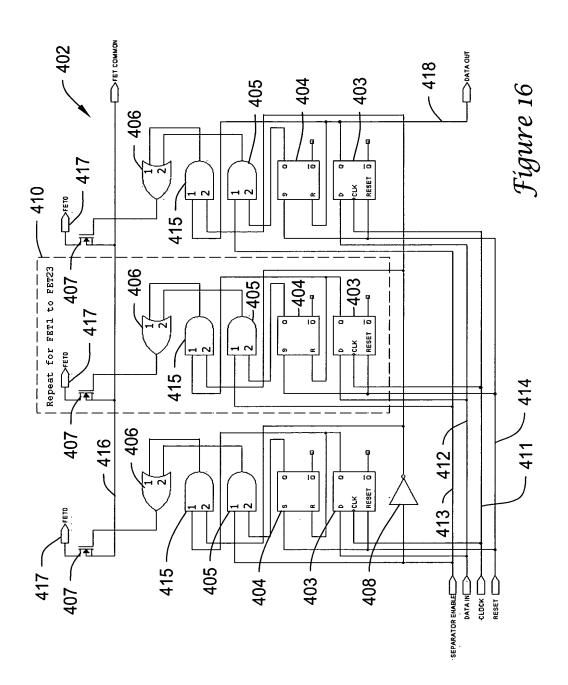


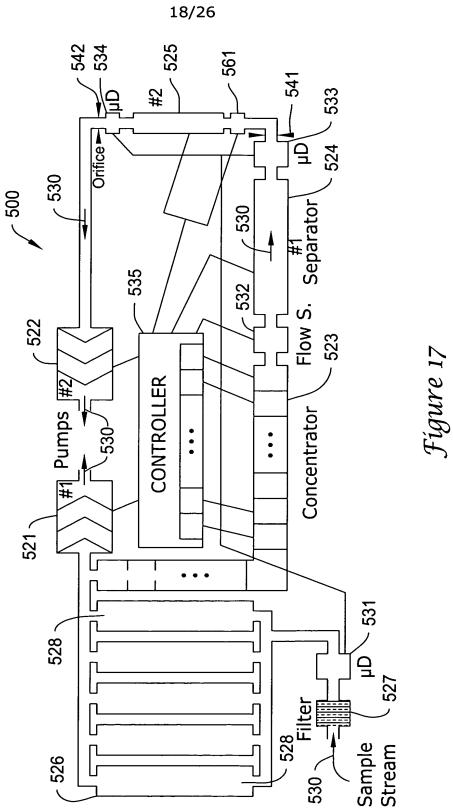
Figure 14

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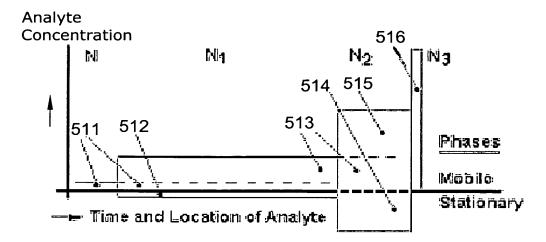


Figure 18

#### Analyte Masses = Film Length x Concentration

	M ppt:	N <sub>∜</sub> ppt	N <sub>2</sub> ppt N <sub>3</sub> ppt
A	∞x1	500x100	5x10,000 11x 50,000
B	മാമി	1000 <b>x1</b> 00	10 <b>x10</b> ,000: 1x1800,000
C	co∙x1	5.000x100	50x10.000 1x500.000
D	∞x1	10,000 x100	100x10,000 1x520,000+lcss
E	coxil	100,030x100	1,000x10,000 10x1,000,000 (10 <sup>7</sup> )

Figure 19

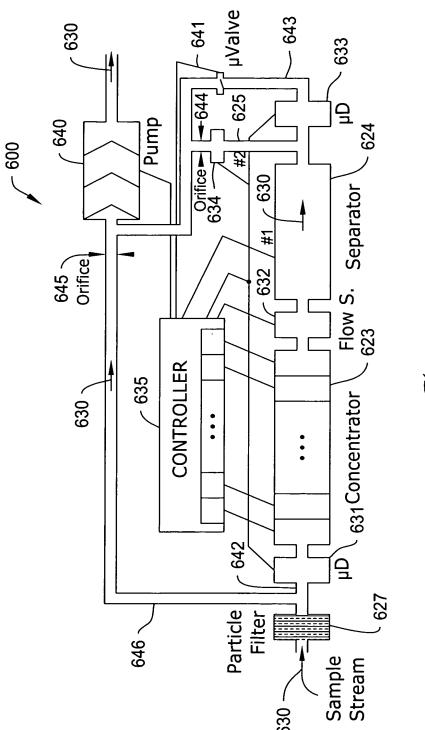
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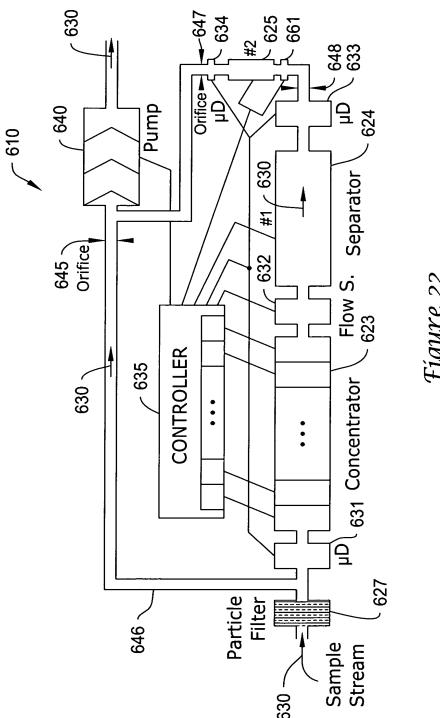
### Pres.Drop at 100 cm/s, 100x100 µm No. of Elem. Length Pres. Drop Peak P.

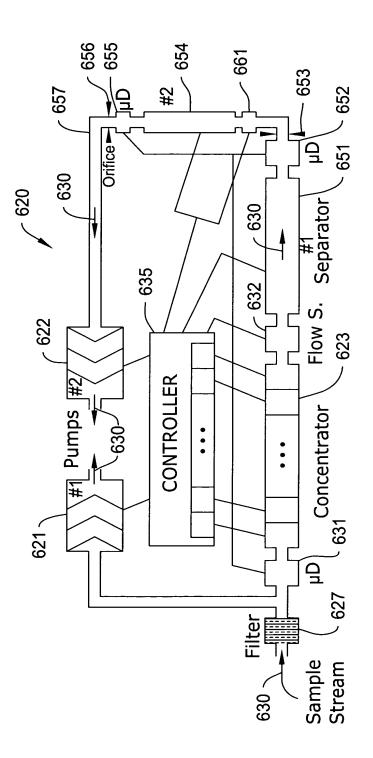
N1	L	Δβ	Q
	¢m_	psi	watts
50	0.5	2.629	20.5
505	0.1	5.311	41.3
1010	0.1	10.621	82.6

Figure 20



Fígure 21





Fígure 23

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Structure
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Design of p
<u>e:</u>

	lable: Des	sign or µG	c-µGC Syst	em on ti	ne basis of	ign of µGC-µGC System on the Basis of a PHASED Structure	ructure	
	v in cm/s	ID in cm	L in cm	s in µm	√ mm ni /	ID in cm Lin cm s in µm lin mm V in cm3/min △p in psi	∆p in psi	
C-1	20	0.014	25	<b>+</b>	2	0.588	.671	
rgc-2	250	0.007	10	0.15	2.5	0.588	5.365	
			Half-Width	k=6	k=6 k=0.2	k=2	k=2	k=0.2
	>	ಧ	₽	共	v(optimal)	v(optimal) v(optimal)	~	∆R(v-vo
	cm/s	ms	ms	sec	cm/s	cm/s	•	%
uGC-1	20	200	20	3.00	8.89	56	8.76	2.5
uGC-2	250	40	7	0.24	149.2	118	8.00	6.2

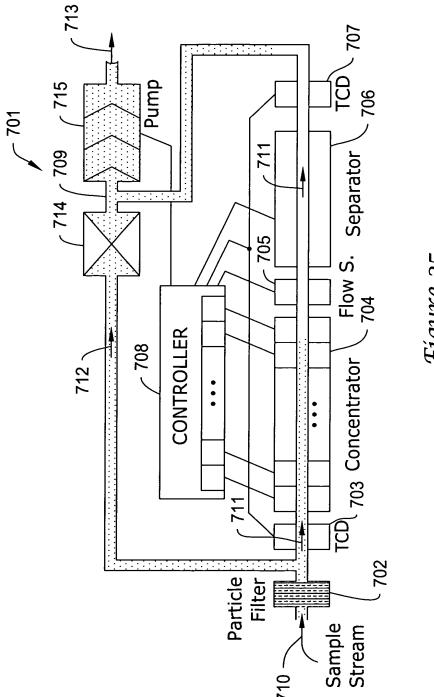


Figure 25

